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# ***Simplicity***®

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## **OWNER'S MANUAL**

MFG. NO. 885 42" ROTARY MOWER

MFG. NO. 886 48" ROTARY MOWER

SIMPLICITY MANUFACTURING COMPANY,



SER. FORM - 177849  
LITHO IN U.S.A.

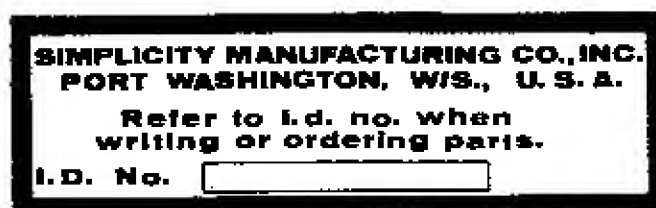
**TP - 1362**

## TO THE OWNER

You have made a wise choice in selecting the Simplicity mid-mounted rotary mower for your tractor. It has been specially designed for your Simplicity tractor and constructed to give lasting superior performance.

Before attempting to operate the mower, study this manual and the manual for your tractor thoroughly. Pay special attention to the safety rules in this manual as well as the tractor owner's manual. Your Simplicity equipment is designed with your safety in mind, but it is up to you to be an alert, safety conscious operator. Be sure anyone else who may operate the tractor is also familiar with the operation and safety instructions.

Your Simplicity equipment requires only a minimum of care, but the maintenance instructions should be followed carefully. Thank you for taking time to read this manual. The time spent will pay big dividends in the extra time saving performance you receive from your Simplicity mower. When ordering replacement parts for your rotary mower, be prepared to give your Simplicity dealer the identification number found on the identification plate shown below. It is located on top of the mower deck. We suggest you locate the number now, and record it below for easy reference.



IDENTIFICATION PLATE

## SIMPLICITY'S NEW EQUIPMENT WARRANTY

The Company warrants Simplicity products to be free from defects in material and workmanship, except the Company makes no warranty, express or implied, with respect to tires, engines, generators and voltage regulators, which are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year (45 days for equipment used for rental, municipal or commercial purposes) under normal use, from date of purchase, will be replaced without charge, provided such part is returned to the factory, (if requested), and is found to be defective upon examination at the factory. This warranty does not apply to any Simplicity products altered outside of the Simplicity factory. THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, PERFORMANCE, OR OTHERWISE. The Company's obligation under its warranty is strictly and exclusively limited to the replacement of such parts, and in no event shall the Company be liable for any other damages, whether direct, immediate, incidental, special, or consequential. Simplicity Manufacturing Company, Inc., reserves the right to modify or change specifications without prior notification. There are no warranties which extend beyond the description of any Simplicity product.

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## SAFETY PRECAUTIONS TO PROTECT YOURSELF AND OTHERS

### OPERATION

Know the controls and how to stop quickly - **READ THE OWNER'S MANUAL.**

Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.

Do not carry passengers. **KEEP CHILDREN AND PETS A SAFE DISTANCE AWAY.**

Clear work area of objects which might be picked up and thrown.

Take all possible precautions when leaving vehicle unattended; such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.

Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of steep slopes; never across the face.

Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

Stay alert for holes in terrain and other hidden hazards.

Use care when pulling loads or using heavy equipment.

- A. Use only approved drawbar hitch points.
- B. Limit loads to those you can safely control.
- C. Do not turn sharply. Use care when backing.
- D. Use counterweight (s) or wheel weights when suggested in owner's manual.

Watch out for traffic when crossing or near roadways.

Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.

Do not alter basic engine governor settings or overspeed engine.

Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.

### FUEL AND FIRE HAZARDS

Handle gasoline with care -- it is highly flammable.

- A. Use approved gasoline container.
- B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.

- C. Open doors if engine is run in garage -- exhaust fumes are dangerous. Do not run engine indoors.

Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.

Allow engine to cool before storing in any enclosure.

To reduce fire hazard keep engine free of grass, leaves or excessive grease.

### ATTACHMENTS

Disengage all attachment clutches and shift into neutral before attempting to start engine.

Disengage power to attachments and stop engine before leaving operator position.

Disengage power to attachment (s) and stop engine before making any repairs or adjustments.

Disengage power to attachments when transporting or not in use.

When using any attachments never direct discharge of material toward bystanders or allow anyone near vehicle while in operation.

Keep vehicle and attachments in good operating condition and keep safety devices in place. Use guards as instructed in owner's manual.

Vehicle and attachments should be stopped and inspected for damage after striking a foreign object and the damage should be repaired before restarting and operating the equipment.

When using vehicle with mower:

- (1) Mow only in daylight or in good artificial light.
- (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
- (3) Shut engine off when unclogging chute.
- (4) Check blade mounting bolts for proper tightness at frequent intervals.

Stop blades when crossing gravel drives, walks or roads.

If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.

## MFG. NO. 885-42" and MFG. NO. 886-48" ROTARY MOWER

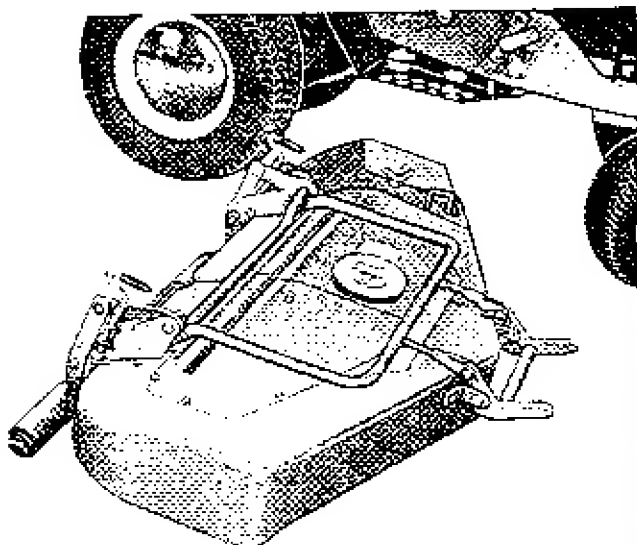


Figure 1. Mower positioned to be slid under tractor.

### RECOMMENDED ACCESSORIES AND OPTIONS

Rear wheel weights will give better traction and stability when mowing on hills.

### INSTALLATION

1. See figure 1. Position the mower as shown in figure 1, on either side of the tractor. If the mower is to be slid in from the right side as shown on figure 1, turn the front wheels to the left. If the mower is to slide under the tractor from the left side, turn the front wheels to the right.
2. See figure 2. Slide the mower under the tractor as shown and center the mower lift eyebolt under lift cable (A).
3. Attach lift cable (A) to the mower lift eyebolt using pin (B) and spring clip (C).
4. Use the tractor lift lever or electric lift switch to lift the

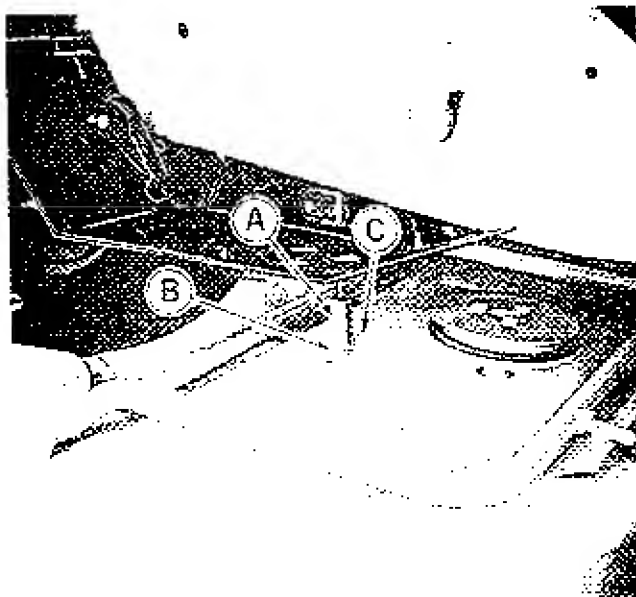


Figure 2. Lift cable attached to mower.

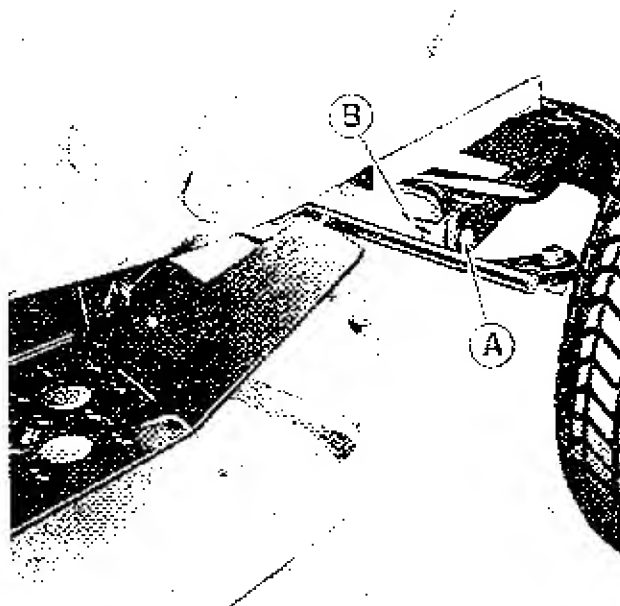


Figure 3. Mower attached to tractor front axle.

mower to the raised position.

5. See figure 3. The mower is well enough balanced in this position so one person can easily install the pins (A) to attach the hitch assembly of the mower to the tractor front axle. This is most easily done by installing the left pin and spring clip first, then installing the right pin (A) and spring clip (B) shown in figure 3.
6. Use the tractor lift lever or switch to lower the mower to the operating position.
7. See figure 4. Pull down on lever (A) to release the spring tension on the power take off idler pulley bracket.

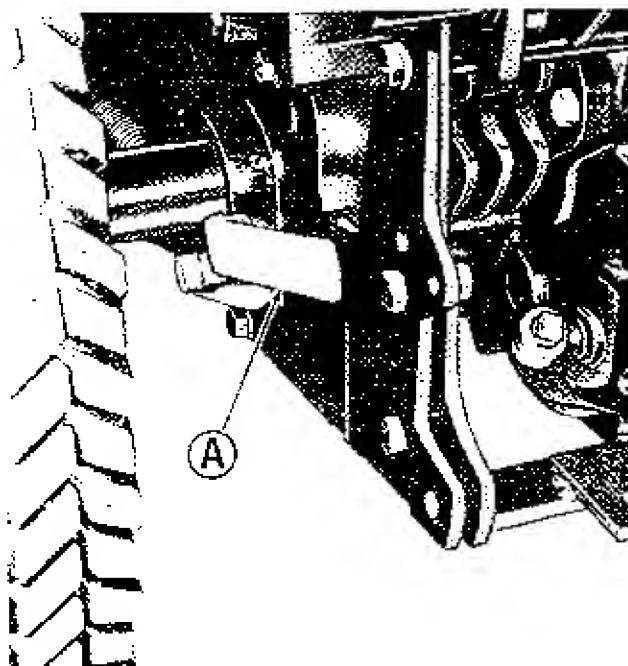


Figure 4. Belt tension lever located at rear of tractor.

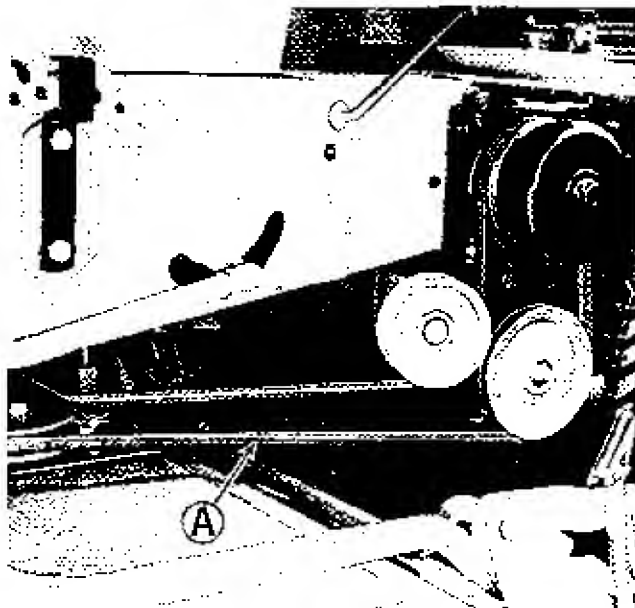


Figure 5. Mower drive belt installed.

8. See figures 5 and 6. Install the mower drive belt (A) over the inside groove of the power take off pulley around the idler pulleys, and the mower drive pulley. As you install the mower drive belt, be sure it is twisted as shown.
9. See figure 4. Pull back on the spring tension lever (A) and lock it in the position as shown in figure 4 to put tension on the mower drive belt.

## REMOVING THE MOWER

**CAUTION: BEFORE ATTEMPTING TO ADJUST, SERVICE OR REMOVE THE MOWER, BE SURE THE ENGINE IS SHUT OFF, THE PARKING BRAKE SET, AND THE MOWER BLADES HAVE STOPPED TURNING.**

1. See figure 4. Push downward on spring tension lever (A) to release the spring tension on the mower drive belt.
2. See figure 5. Remove the mower drive belt (A) from the mower drive pulley, idler pulleys, and power take off pulleys.
3. See figure 4. Position the spring tension lever (A) as shown in figure 4.
4. Use the tractor lift lever or lift switch to lift the mower to the raised position.
5. See figure 3. Remove the spring clips (B) and two pins (A) to unfasten the mower hitch from the tractor front axle.
6. Use the tractor lift lever or lift switch to lower the mower.
7. See figure 2. Remove the spring clip (C) and pin (B) to unfasten lift cable (A) from the mower. Install pin (B) in the mower eyebolt for storage and place spring clip (C) through it.
8. See figure 1. Turn the tractor front wheels left if the mower is to be slid out the right side of the tractor or right if the mower is to be slid out from the left side of the tractor. Slide the mower out.

## OPERATION

### BEFORE OPERATING THE MOWER

1. Read this manual and the owner's manual for the tractor carefully. Be sure you are familiar with the safety precautions, controls, and operating instructions.

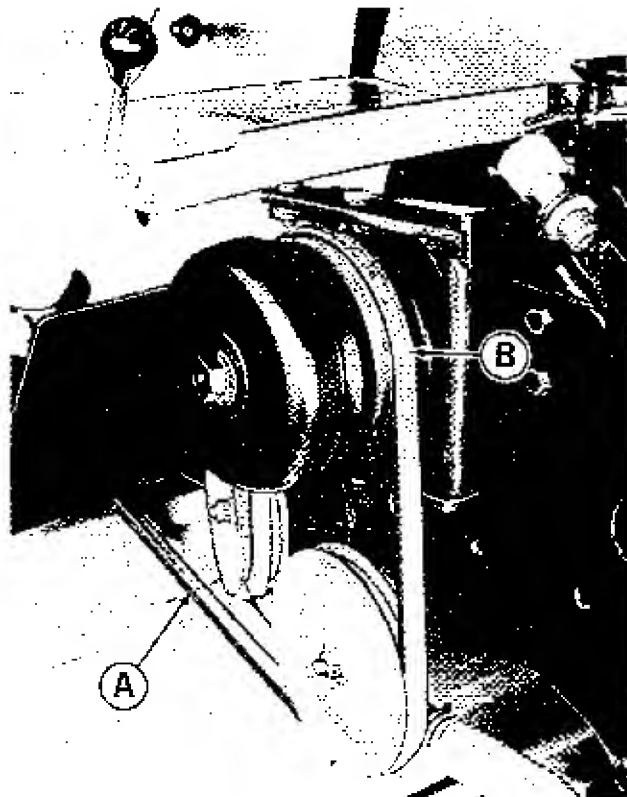


Figure 6. Mower drive belt installed on inner groove of power take off pulley.

2. Check the mower carefully to make sure it is properly installed.
3. Be sure the tractor tires are properly inflated as explained in the tractor owner's manual.
4. Be sure the mower is properly adjusted front to rear, as explained on page 4 of the Adjustment section.
5. Check the condition of the mower blades. Keep them tight, sharp, and in balance.
6. Lubricate the grease fittings as instructed on page 6 of this manual.
7. Clear the lawn of sticks, stones, wire and all other debris which might be caught or thrown by the mower blades.
8. Determine the best method of mowing according to the dimensions, terrain, and obstructions of the lawn.
9. Adjust the cutting height of the mower as explained on page 4 of the Adjustment section.

### ENGINE SPEED SETTING

The tractor engine should be operated at 3/4 to full speed when using the mower. When the grass is wet or higher than 3" the engine should be run at full speed. Three-fourths to full speed may be used when mowing lighter grass.

### POSITIONING THE MOWER

The mower is lowered into position by using the tractor lift system. This may be either the manual lift lever or the optional electric lift switch. Lower the mower until the lift cable (Figure 2, Item A) is loose.

Mower cutting height is regulated by turning the height control handle located on either side of the mower. See Cutting Height Adjustment in the Adjustment section of this manual.

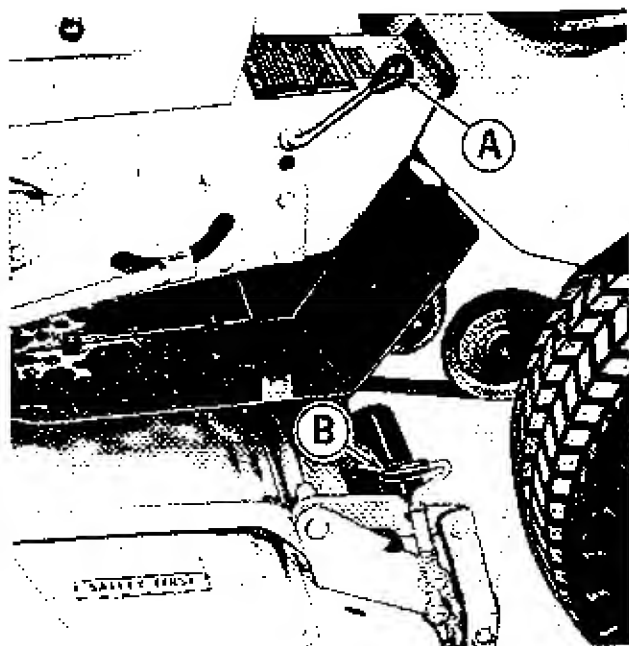


Figure 7. Left side of mower and tractor.

### ENGAGING THE POWER TAKE OFF

See figure 7. After the tractor engine has been started and is running at about 3/4 full speed, the mower may be engaged by pushing forward on the tractor power take off control lever (Figure 7, Item A)

### CONTROLLING GROUND SPEED

The best ground speed will vary greatly with the type of terrain and the amount and condition of grass being cut. Ground speed should be controlled by the tractor transmission. For normal conditions where the terrain is smooth and the grass dry and not extremely tall a ground speed of 3 - 4 MPH may be best. However, if the terrain is rough and the grass tall or wet, a slower ground speed of about 2 - 3 MPH is sufficient. The Operation Chart in your tractor owner's manual shows the approximate control settings to achieve these speeds.

### MOWING PATTERN

Size and type of area to be mowed determines the best mowing pattern to use. Obstructions such as trees, fences, and buildings must also be considered. In most cases, making one or two passes in a counter-clockwise direction around the area to be mowed is advisable to keep cut grass off fences, walks, etc. The remainder of the mowing should normally be done in a clockwise direction so the clippings are dispersed on the cut area.

On moderate size, frequently mowed lawns where the grass is light, it is practical to mow in a counter-clockwise direction so the grass clippings are thrown toward the center of the lawn and concentrated for easy pick up and removal.

### MOWING HINTS

Most lawns should be mowed to keep the grass approximately 2" - 3" high. Best results are obtained by cutting often and not too short. To keep a green lawn, never mow more than 1/3 off the height of the grass or a maximum of 1" in one mowing. For extremely tall grass, set the cutting height at maximum for the first mowing, then reset to the

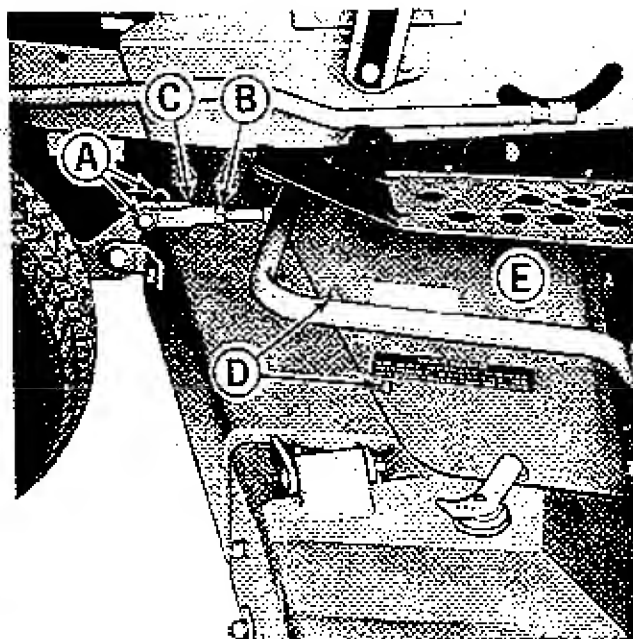


Figure 8. Left side of mower.

desired height and mow again. Allow the grass to grow to three inches then cut off only the top inch.

On thick, springy grass or, soft ground, the mower rollers may sink into the ground giving too low a cut. Adjust the cutting height to get the desired height of cut. For best appearance grass should be cut in the afternoon or evening when it is free of moisture.

## ADJUSTMENTS

### CUTTING HEIGHT

See figure 7. The cutting height of the mower is adjustable 1-5/8" to 3-1/8". To adjust the height of cut, turn the adjusting handle (B) on each side of the mower clockwise to raise the blades, and counter-clockwise to lower them. The two handles should be rotated the same direction and number of turns so they carry equal weight of the mower and keep the mower level. When the two handles require equal effort to turn, it is a good indication the mower is level. However, it is advisable to occasionally drive the tractor on a smooth level surface and check the height of the two outside blades to insure they are cutting at equal height.

### FRONT TO REAR HEIGHT ADJUSTMENT

See figure 9. To give the best mowing job, the mower should be adjusted so the front of the center blade (B) is 1/8" to 1/4" higher than the rear of the two outside blades (A) when the mower is setting on a smooth hard surface. If adjustment is required, proceed as follows:

1. Check the air pressure in the tractor tires to insure that they are inflated according to the tractor owner's manual.
2. With the mower properly installed, drive the tractor on a smooth flat surface, such as a level concrete floor.
3. Use the tractor manual lift lever or electric lift switch to lower the mower completely to the operating position.
4. Shut off the tractor engine. Do not attempt to make any adjustments on the mower while the engine is running.
5. See figure 9. Rotate the left mower blade so it is parallel

## TROUBLE SHOOTING GUIDE

PROBLEM OR SYMPTOM	POSSIBLE CAUSES	CHECKS AND CORRECTIONS
Mower cuts uneven.	Mower not leveled. Tractor tires not correctly inflated. Mower front to rear height adjustment incorrect.	Level mower. See page 4. Inflate according to tractor owners manual. Adjust as instructed on page 4.
Rough looking cut.	Engine speed too slow. Blades not sharp. Power take off belt slipping.	Run engine at full speed. Sharpen or replace blades. Check belt tension lever. See figure 4.
Mower will not raise.	Lift cable not attached or broken.	Attach or replace lift cable.
Engine stalls easily.	Ground speed too fast. Engine RPM too slow. Engine lacks power.	Reduce ground speed. Run engine at full throttle. See tractor trouble shooting guide in tractor manual.
Mower vibration is noticeable.	Blade mounting bolts loose. Mower blades bent. Blades damaged or out of balance.	Tighten bolts to 27-37 ft. pounds. Replace blade. Replace or balance blades.
Excessive belt breakage occurs.	Pulleys rough or loose. Using incorrect belt.	Repair or replace pulleys. Use only genuine Simplicity replacement parts.
Tractor handles poorly.	Tires not properly inflated. Moving too fast on rough or sloping surface.	Inflate tires according to tractor owners manual. Reduce travel speed.

with the tractor, and the tips point straight toward the front and rear.

6. Turn the mower height adjusting handles, Figure 7, Item B, so the rear tip of the left blade, Figure 9, Item A, is two inches from the ground surface.

7. Repeat steps five and six on the right side of the mower so the rear of the right blade is two inches from the ground surface.

8. If any height adjustment is needed to correct the height of the right blade, recheck the left blade height.

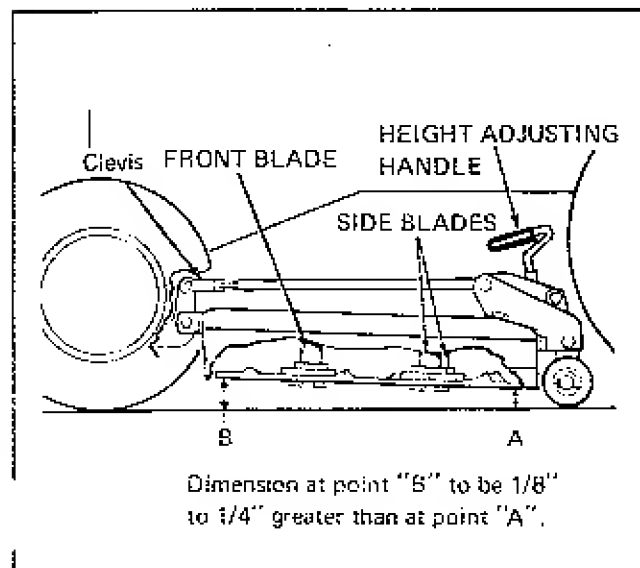


Figure 9. Mower viewed from left side.

9. Turn the center blade so that the tips are pointing straight toward the front and rear. Measure the distance from its front tip to the ground surface (Figure 9, Item B). The distance should be 2-1/8" to 2-1/4", that is 1/8" to 1/4" more than the distance from the rear tip of the outer blades to the ground surface.

10. See figure 8. If adjustment is needed, remove the two spring clips and pins (A). Loosen the locking nuts (B) and turn the eyebolts (C) counter-clockwise to raise the front of the mower, or clockwise to lower the front of the mower as needed. Always turn each of the eyebolts the same number of turns in the same direction.

11. See figure 8. After making the adjustment, tighten the locking nuts (B) and reinstall the pins (A) and spring clips.

12. Recheck both the side and center blade heights. If the adjustment is not correct, repeat steps 10 and 11.

## MAINTENANCE

### ORDERING REPLACEMENT PARTS

Replacement parts required for performing maintenance services or repair work should be purchased from your Simplicity dealer. When ordering parts be prepared to give him the mower identification number. If you have not already recorded this number on the inside front cover of this manual we suggest you do so now for convenient future reference. **USE ONLY GENUINE SIMPLICITY REPLACEMENT PARTS.**

### AFTER EACH USE

Inspect the mower, checking for loose bolts, missing spring clips and pins, etc. Also check the mower blades for sharp-

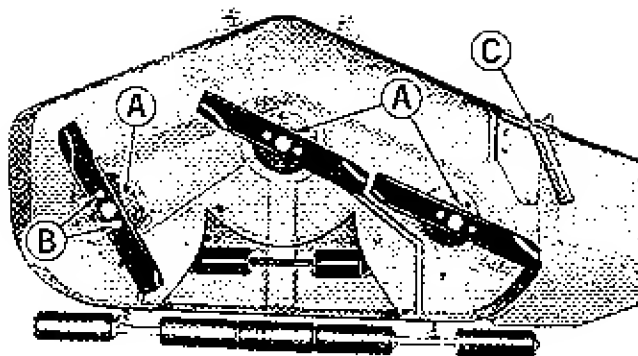


Figure 10. Underside of mower.

ness and to insure they have not been bent or chipped from hitting a hard object. Check the blade mounting bolts to be sure they are tight. The underside of the mower should be checked and any build up of grass clippings or dirt which may reduce the cutting capacity of the mower should be removed.

### EVERY 50 HOURS

See figure 10. Each of the three grease fittings (A) should be given about five shots of general purpose automotive grease. Before greasing the grease fittings, wipe them clean to prevent dirt from being forced into the bearings. **DO NOT OVER LUBRICATE THE MOWER. EXCESS GREASE AND OIL MAY GET ON THE BELTS AND CAUSE SLIPPAGE.**

A light coating of grease or SAE 30 weight oil should also be placed on the mower mounting pins, (Figure 3, item A) and all mower pivot points to reduce wear.

### OUT OF SERVICE PROTECTION (STORAGE)

1. Remove the mower from the tractor. See page 3.
2. Use water under pressure to thoroughly clean the mower to remove any build up of grass clippings and dirt under the mower deck.
3. Cover any area where the paint has been worn or chipped away with paint or a light coat of oil.
4. Lubricate the mower according to the Every 50 Hour Maintenance service.
5. Store the mower in a dry place.

### BLADE REPLACEMENT

Do not attempt to remove the blades until you have the correct size box, socket, or open end wrenches for the blade mounting bolts. Place a wooden block between the mower blade and deck to prevent the blade from rotating until the capscrews are loosened. See figure 10. Remove the capscrews (B) to remove the blades for sharpening or replacement. **CAUTION: NEVER OPERATE THE MOWER WITHOUT THE STONE GUARD (C) IN PLACE. ALWAYS INSURE IT IS SECURELY IN PLACE WHEN SERVICING THE MOWER. DO NOT REMOVE THE ARBORS. REMOVE THE BLADES FROM THE ARBORS TO SHARPEN A**

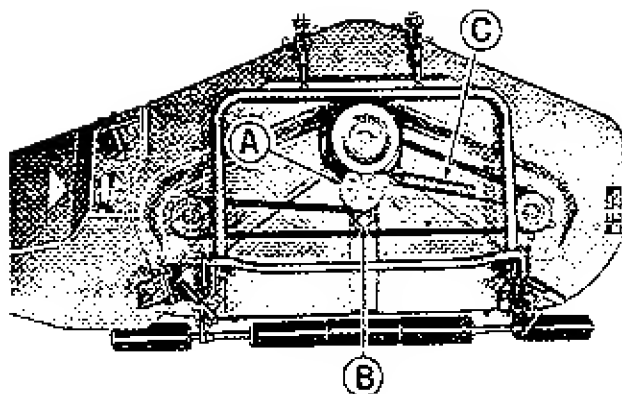


Figure 11. Mower spindle drive belt shown with belt covers removed.

**BLADE. TO DO THIS YOURSELF, CLAMP IT IN A VICE AND USE A 10" FILE ALONG THE ORIGINAL BEVEL. FILE TO A RAZOR EDGE AT AN ANGLE OF 30°. To balance the blade insert a knife blade or small rod through the center hole to see if the blade rests with both ends balancing evenly. File the heavy side until even.**

Carefully clean the blade and arbor. Install the new or sharpened blade with the lift tabs toward the top. Install the two blade mounting capscrews and tighten them alternately two turns at a time to 45 foot pounds torque. Use a block or wedge to keep the blade from turning while tightening the bolts. Rotate the blades by hand slowly to see that the ends clear the housing all around and the tips are running true. If the mower is properly adjusted and in apparent good condition, but seems to require excess engine power it may be that an arbor shaft or bearing has been damaged by hitting an obstruction. Check the blade drive system. Tight bearings, a bent arbor shaft or spindle housing should be repaired or replaced by your Simplicity dealer.

### BELT REPLACEMENT

The power take off to mower drive belt can be easily replaced if necessary by following the installation instructions on page 2 of this manual.

The blade drive belt located under the mower deck, is under spring tension, and does not require any adjustment. Should this belt need replacement, remove the mower from the tractor and proceed as follows:

1. See figure 8. Remove the capscrews (D) and the two belt covers (E) from the mower deck.
2. See figure 11. Remove the broken or damaged belt.
3. Insure the idler pulley (A) is free to pivot so the spring tension will be applied to the belt. Lubricate the idler pulley pivot at (B) with a few drops of SAE 30 engine oil.
4. Check pulleys for rough edges or worn bearings.
5. Install a new Simplicity belt as shown in figure 11, and fasten the belt tension spring (C).
6. See figure 8. Replace the belt covers (E) and capscrews (D)

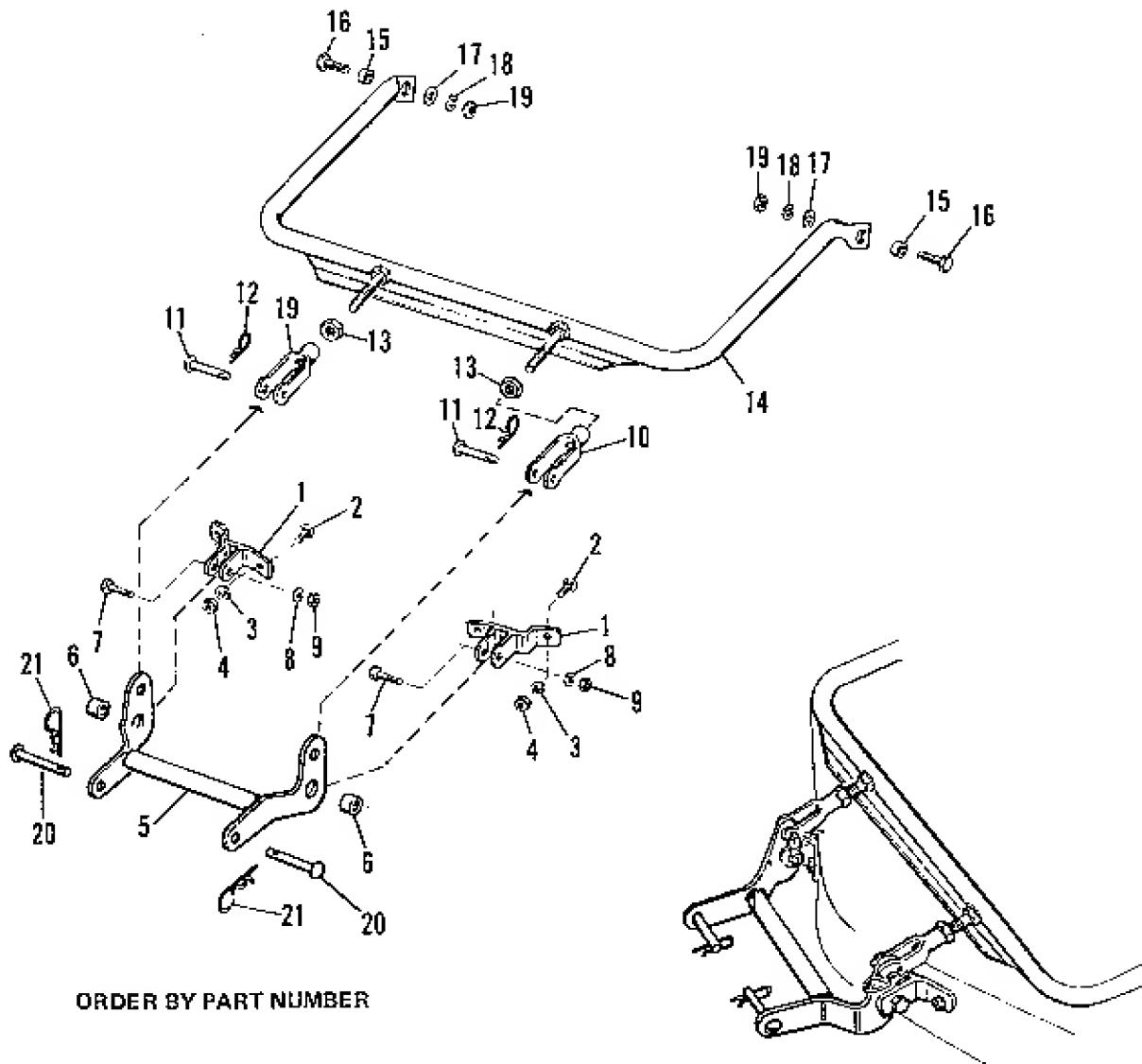


## SPECIFICATIONS

	48" (MFG. NO. 886)	42" (MFG. NO. 885)
Effective Cutting Width	48" (for Sovereign only)	42" (Sovereign or Landlord)
Mowing Capacity	Up to 2-1/4 acres an hour	Up to 2 acres an hour
Dimensions	36" long x 54" wide x 6" deep	35-1/2" long x 47-1/2" wide x 6" deep
Mower overall width (including deflector)	60 - 3/4"	54 - 3/4"
Deck height above blade	6"	6"
Cutting Height	Continuously variable between 1-5/8" and 3-1/8"	
Blade Arrangement	Three staggered overlapping blades.	
Mower Input Drive	Tractor center PTO clutch controls power to cushioning V-belt to mower center spindle.	
Side Spindle Drive	Cushioning V-belt with spring-loaded idler. Couples all spindles.	
Spindle Bearings	Sealed rolling contact.	

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

# BAIL ASSEMBLY

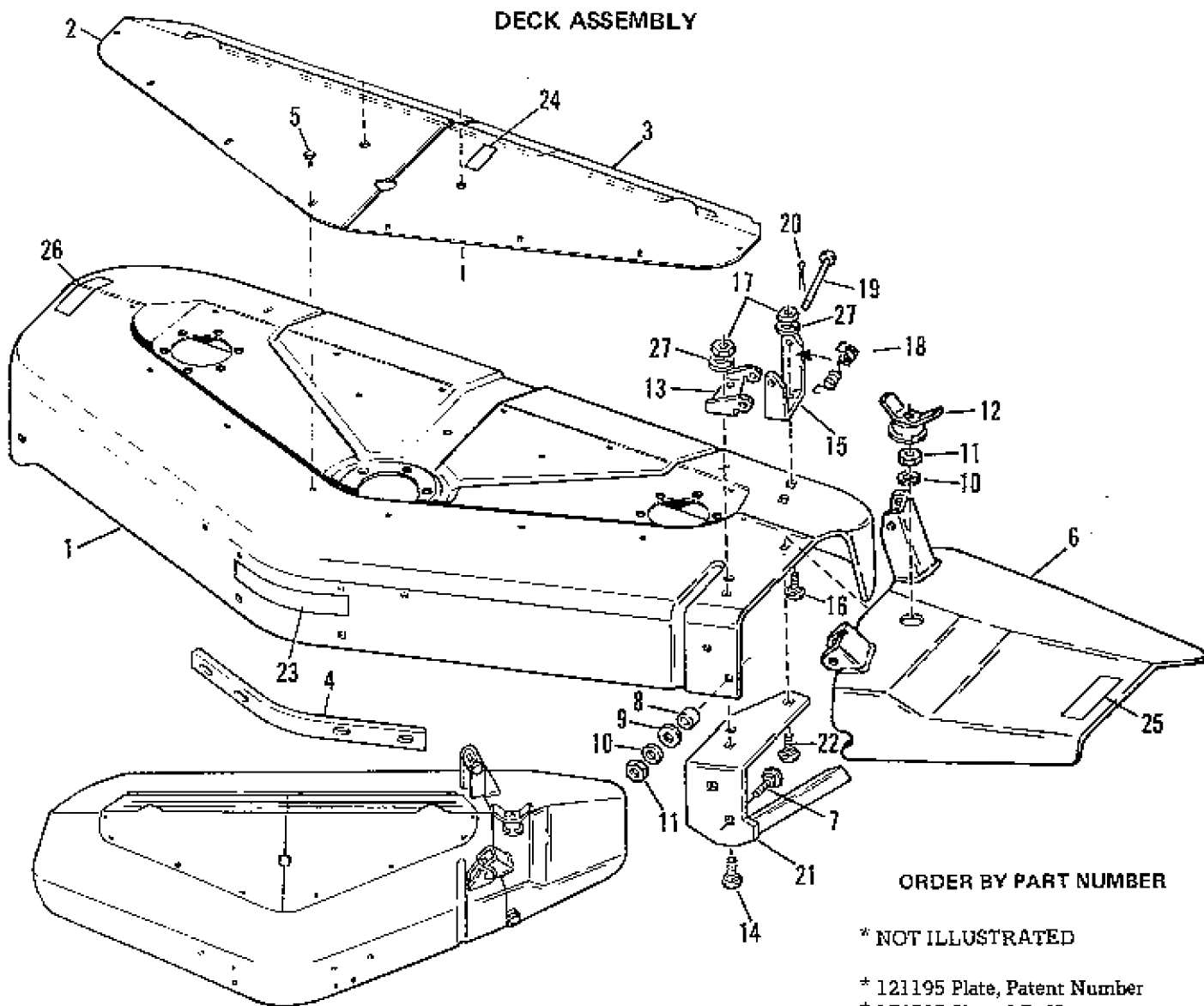


ORDER BY PART NUMBER

48" ROTARY MOWER

Ref. No.	Part No.	Qty. Req.	Description
1	108219	2	Front Bracket Assembly
2	702004	4	Carriage Bolt, 3/8"-16 x 1-1/4"
3	720002	4	Lockwasher, 3/8"
4	717003	4	Full Hex Nut, 3/8"-16
5	172468	1	Rocker Arm
6	105051	2	Spacer
7	705049	2	Hex Capscrew, 1/2"-13 x 1-1/4"
8	720004	2	Lockwasher, 1/2"
9	717006	2	Full Hex Nut, 1/2"-13
10	154304	2	End Adj. Yoke
11	154305	2	Yoke Pin

Ref. No.	Part No.	Qty. Req.	Description
12	8161045	2	Spring Clip
13	717016	2	Hex Jam Nut, 1/2"-20
14	172473	1	Bail Assembly
15	105051	2	Spacer
16	705049	2	Hex Capscrew, 1/2"-13 x 1-1/4"
17	719003	2	Plain Washer, 7/16"
18	720004	2	Lockwasher, 1/2"
19	717006	2	Full Hex Nut, 1/2"-13
20	118053	2	Pin
21	176012	2	Safety Clip



ORDER BY PART NUMBER

\* NOT ILLUSTRATED

\* 121195 Plate, Patent Number

\* 176385 Plate, I.D. No.

\* 176151 Film, Safety

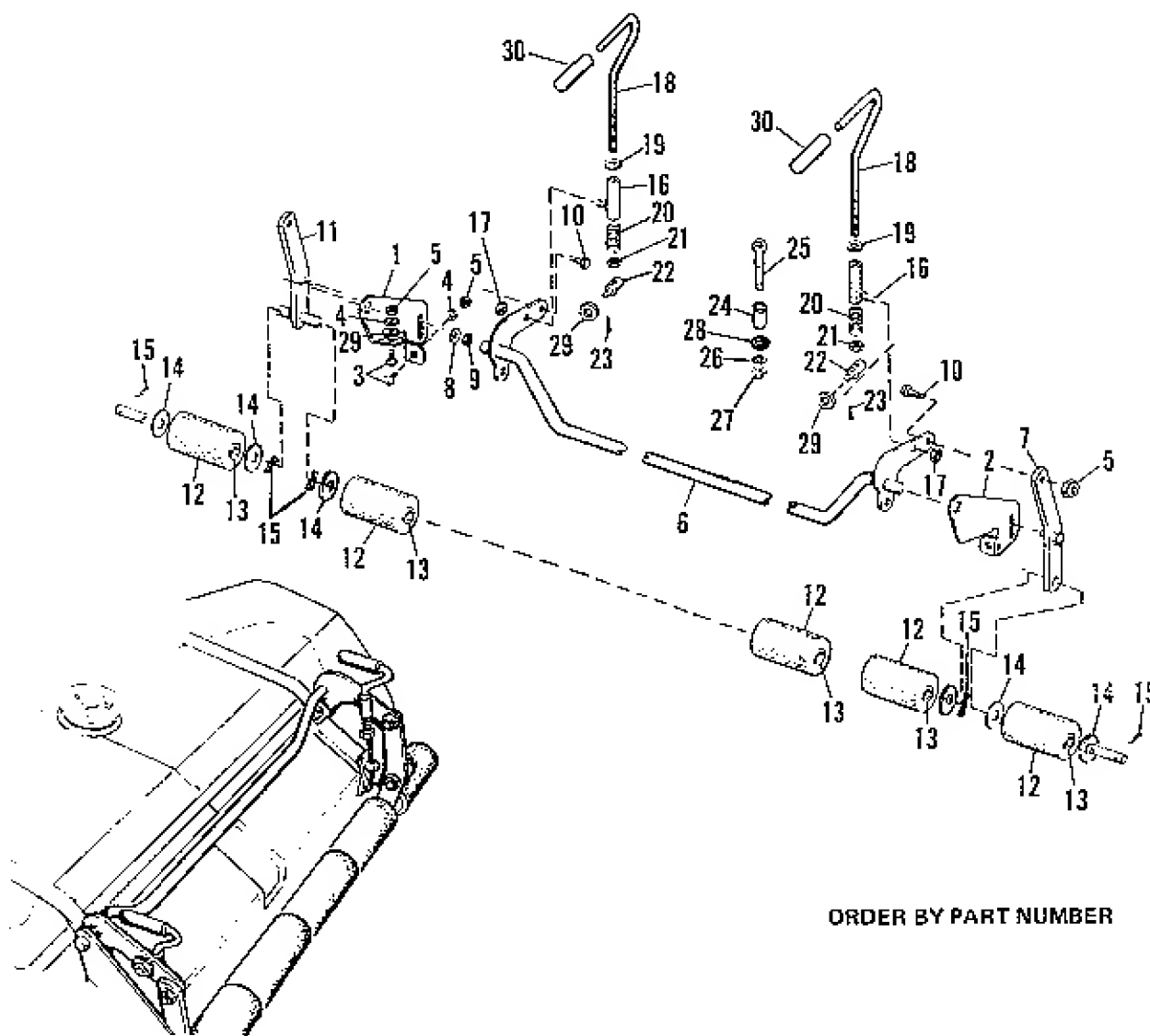
\* 176700 Decal OPEL

#### 48" ROTARY MOWER

Ref. No.	Part No.	Qty. Req.	Description
1	176688	1	Mower Housing
2	172076	1	Cover, R.H.
3	172354	1	Cover, L.H.
4	108366	1	Reinforcing Bar
5	715067	14	Self-Tapping Screw, 1/4"-20 x 3/8"
6	175961	1	Deflector Assembly
7	702004	2	Carriage Bolt, 3/8"-16 x 1-1/4"
8	153081	1	Spacer
9	8161199	1	Special Washer
10	720002	3	Lockwasher, 3/8"
11	717003	3	Full Hex Nut, 3/8"-16
12	123060	1	Nut Assembly
13	175839	1	Front Half Hinge

Ref. No.	Part No.	Qty. Req.	Description
14	702024	2	Carriage Bolt, 5/16"-18 x 1"
15	175840	1	Rear Half Hinge
16	703005	2	Carriage Bolt, 5/16"-18 x 3/4"
17	717001	4	Full Hex Nut, 5/16"-18
18	176155	1	Spring
19	175838	2	Pin
20	722009	2	Cotter Pin, 1/8" x 3/4"
21	174127	1	Stone Guard Assembly
22	702002	1	Carriage Bolt, 3/8"-16 x 1"
23	106719	1	Film, Simplicity
24	174845	1	Film, Belt Installation
25	176719	1	Decal, Danger
26	176720	1	Decal, Caution
27	720001	4	Lockwasher, 5/16"

## ROLLER ASSEMBLY



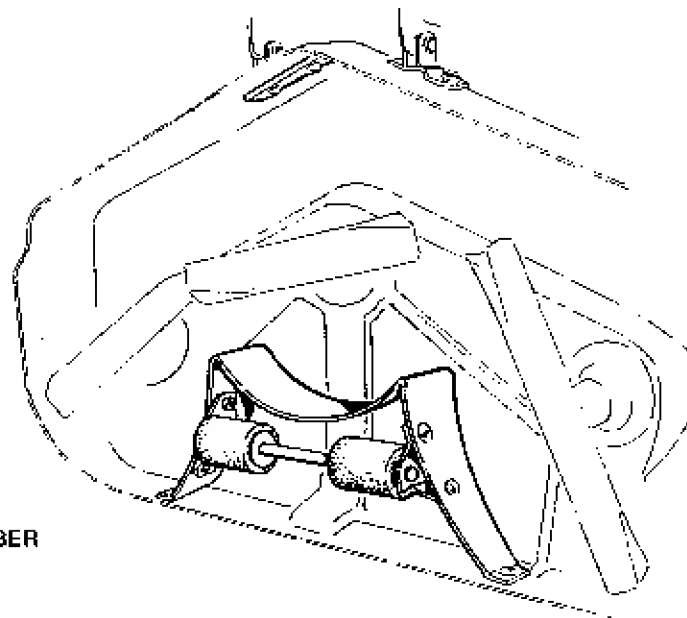
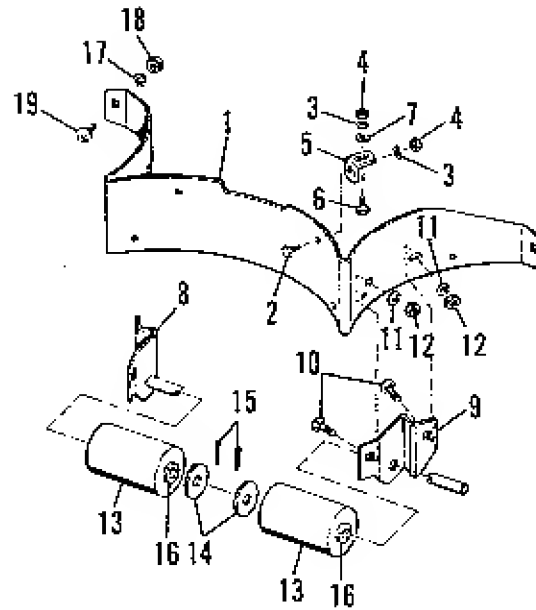
ORDER BY PART NUMBER

48" ROTARY MOWER

Ref. No.	Part No.	Qty. Req.	Description
1	172047	1	Roller Bracket, R.H.
2	172046	1	Roller Bracket, L.H.
3	702003	4	Carriage Bolt, 3/8"-16 x 3/4"
4	720002	4	Lockwasher, 3/8"
5	717003	6	Full Hex Nut, 3/8"-16
6	172015	1	Rocker Assembly Arm
7	108465	1	Roller Bar Assembly, L.H.
8	719001	2	Plain Washer, 3/8"
9	717510	2	Full Hex Nut, 3/8"-16
10	705005	2	Hex Capscrew, 3/8"-16 x 1"
11	172075	1	Roller Shaft Assembly
12	108432	5	Roller W/Bushing
13	108419	10	Bushing
14	116001	6	Washer
15	722011	5	Cotter Pin, 3/16"-1"

Ref. No.	Part No.	Qty. Req.	Description
16	108241	2	Socket Crank Assembly
17	717510	2	Full Hex Nut, 3/16"-16
18	177814	2	Adjusting Screw Assembly
19	719001	4	Plain Washer, 3/8"
20	108360	2	Adjusting Screw Spring
21	717013	2	Hex Jam Nut, 3/8"-16
22	108512	2	Pivot
23	722016	2	Cotter Pin, 3/32" x 3/4"
24	172082	1	Spacer
25	171815	1	Eye Bolt
26	720002	1	Lockwasher, 3/8"
27	717003	1	Full Hex Nut, 3/8"-16 N.C.
28	719001	1	Plain Flat Washer, 3/8"
29	719002	4	Plain Washer, 5/16"
30	176985	2	Grip

# MOWER UNDERSIDE



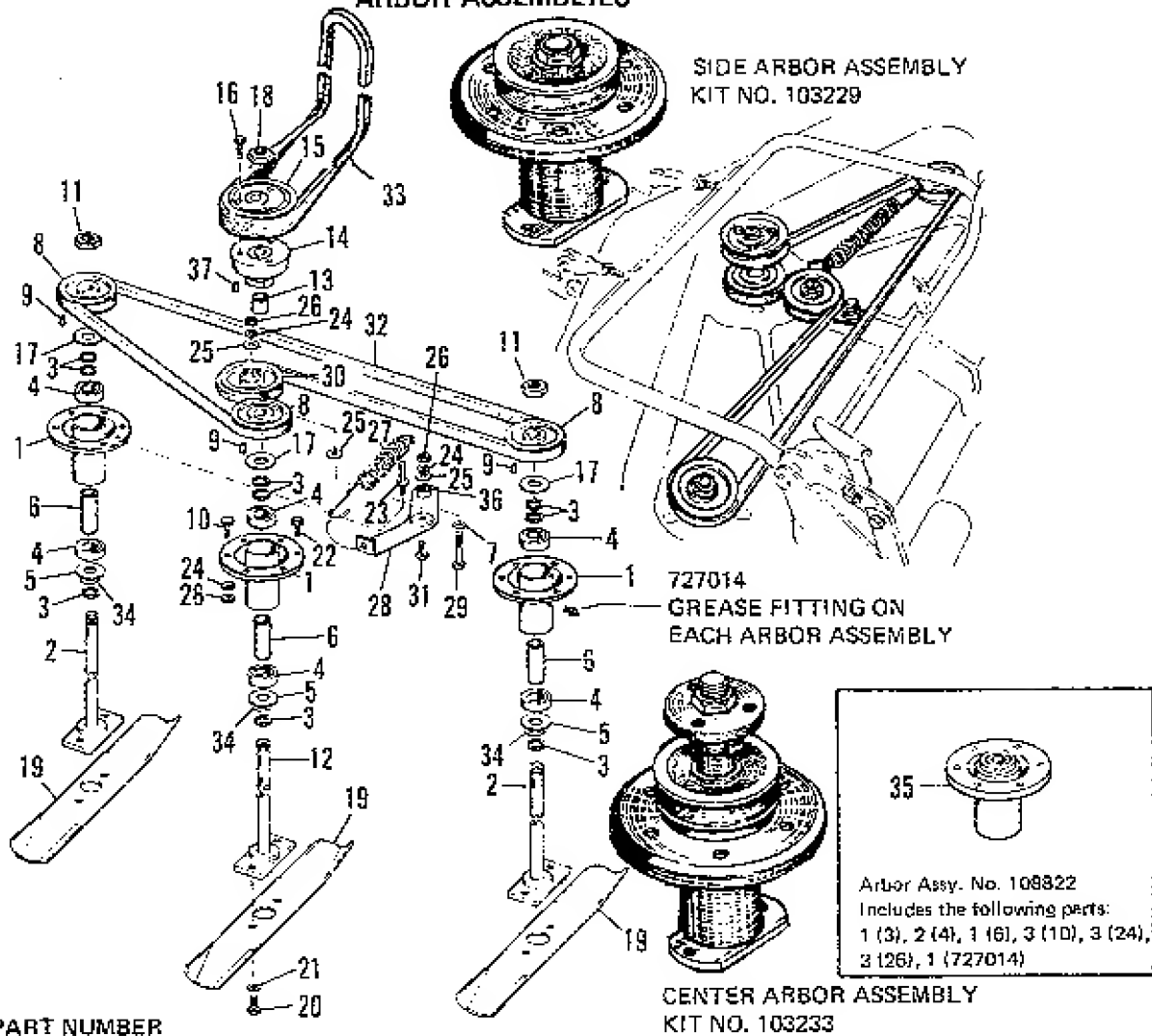
ORDER BY PART NUMBER

## 48" ROTARY MOWER

Ref. No.	Part No.	Qty. Req.	Description
1	108453	1	Baffle
2	714012	2	Self Tap Hex Screw, 1/4"-20 x 7/8"
3	720003	4	Lockwasher, 1/4"
4	717005	4	Full Hex Nut, 1/4"-20
5	108186	2	Baffle Clip
6	715018	2	Hex Capscrew, 1/4"-20 x 5/8"
7	719006	2	Plain Washer, 1/4"
8	108454	1	Bracket & Shaft Assembly
9	108224	1	Roller Bracket, L.H.

Ref. No.	Part No.	Qty. Req.	Description
10	702015	4	Carriage Bolt, 5/16"-18 x 3/4"
11	720001	4	Lockwasher, 5/16"
12	717001	4	Full Hex Nut, 5/16"-18
13	108431	2	Roller Assembly W/Bushing
14	116001	2	Washer
15	722011	2	Cotter Pin, 3/16" x 1"
16	108419	4	Bushing
17	720002	2	Lockwasher, 3/8"
18	717003	2	Full Hex Nut, 3/8"-16
19	703004	2	Carriage Bolt, 3/8"-16 x 3/4"

# 48" ROTARY MOWER ARBOR ASSEMBLIES

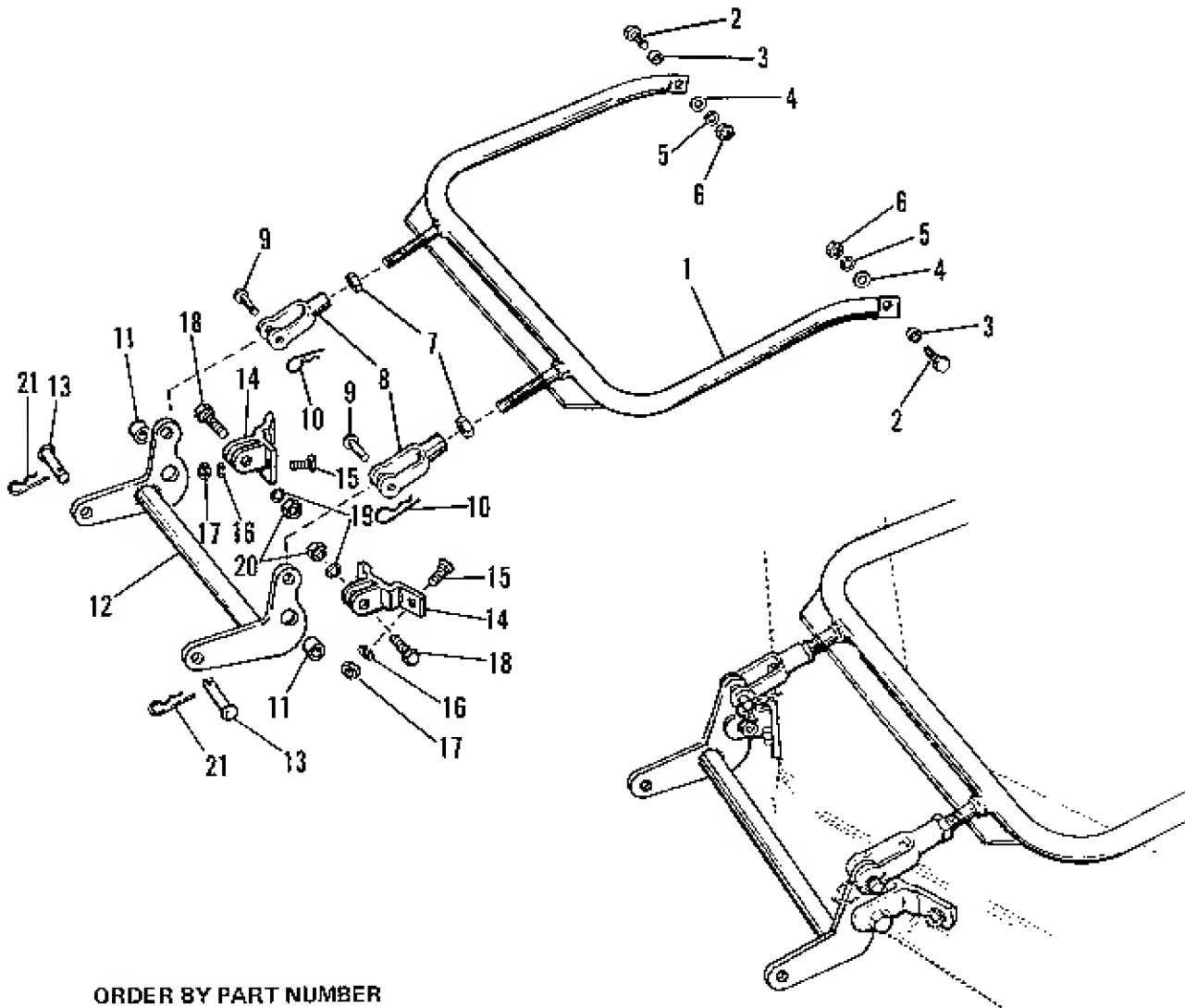


ORDER BY PART NUMBER

Ref. No.	Part No.	Qty. Req.	Description
1	108679	3	Tube Assembly, Arbor
2	108250	2	Arbor Assembly
3	108181	9	Washer
4	108202	6	Bearing
5	108257	3	Washer
6	108201	3	Spacer
7	719001	1	Plain Washer, 3/8"
8	177005	3	Pulley
9	725006	3	Woodruff Key, (No. 61) 3/16" x 5/8" Dia.
10	161130	1	Hex Capscrew, Special
11	717517	2	Hex Lock Nut, 3/4"-16
12	177499	1	Arbor Drive Assembly
13	108436	1	Spacer
14	176340	1	Pulley Hub
15	174190	1	Pulley
16	715174	3	Screw, Washer-head, Taptite 3/8"-16 x 1-3/4"
17	108139	3	Flinger
18	717517	1	Hex Lock Nut, 3/4"-16

Ref. No.	Part No.	Qty. Req.	Description
19	108448	3	Knife Blade
20	715024	6	Hex Capscrew, 3/8"-16 x 5/8"
21	720002	6	Lockwasher, 3/8"
22	705004	16	Hex Capscrew, 3/8"-16 NC x 3/4"
23	156131	1	Stop Stud
24	720002	20	Lockwasher, 3/8"
25	719002	6	Plain Washer, 5/16"
26	717003	20	Full Hex Nut, 3/8"-16
27	108449	1	Tension Spring
28	108473	1	Idler Lever Assembly
29	705010	1	Hex Capscrew, 3/8"-16 x 1-3/4"
30	108386	1	Idler Pulley
31	108418	1	Screw
32	108450	1	"V" Belt, Mower
33	163011	1	"V" Belt
34	108472	3	Washer
35	108822	2	Arbor Assembly with Bearings and Hardware
36	8171073	1	Inner Race
37	157332	1	Key

# BAIL ASSEMBLY



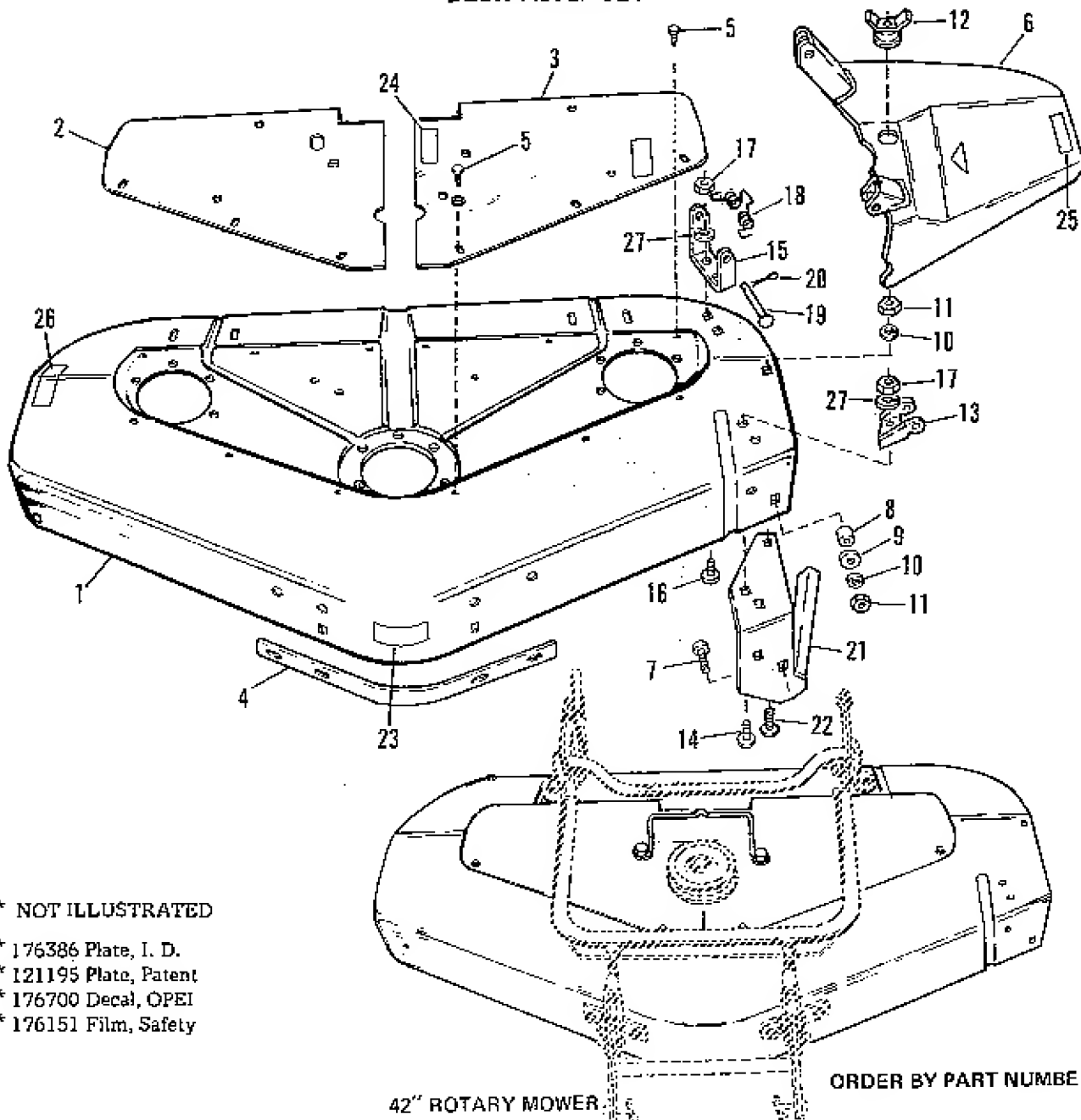
ORDER BY PART NUMBER

## 42" ROTARY MOWER

Ref. No.	Part No.	Qty. Req.	Description
1	171933	1	Bail Assembly
2	705049	2	Hex Capscrew, 1/2"-13 x 1-1/4"
3	105051	2	Spacer
4	719003	2	Plain Washer, 7/16"
5	720004	2	Lockwasher, 1/2"
6	717006	2	Full Hex Nut, 1/2"-13 NC
7	717016	2	Hex Jam Nut, 1/2"-20 NF
8	154304	2	Yoke End, Adjusting
9	154305	2	Yoke Pin
10	8161045	2	Spring Clip
11	105051	2	Spacer

Ref. No.	Part No.	Qty. Req.	Description
12	172468	1	Rocker Arm Assembly
13	118053	2	Pin
14	108219	2	Bracket Assembly, Front
15	702002	4	Carriage Bolt, 3/8"-16 NC x 1"
16	720002	4	Lockwasher, 3/8"
17	717003	4	Full Hex Nut, 3/8"-16 NC
18	705049	2	Hex Capscrew, 1/2"-13 x 1-1/4"
19	720004	2	Lockwasher, 1/2"
20	717006	2	Full Hex Nut, 1/2"-13 NC
21	176012	2	Safety Clip, Pin

# DECK ASSEMBLY



\* NOT ILLUSTRATED

- \* 176386 Plate, I. D.
- \* 121195 Plate, Patent
- \* 176700 Decal, OPEI
- \* 176151 Film, Safety

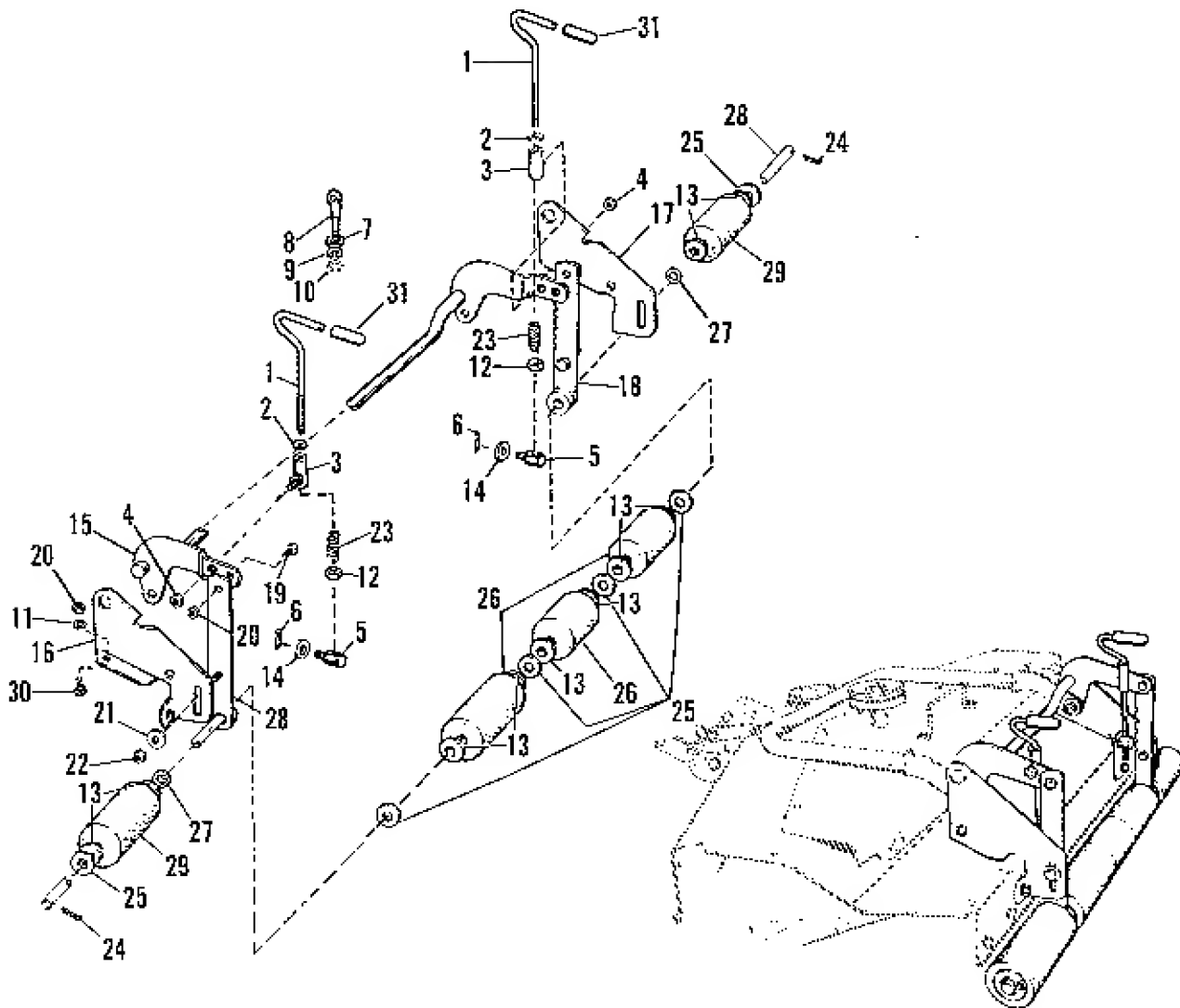
ORDER BY PART NUMBER

Ref. No.	Part No.	Qty. Req.	Description
1	176683	1	Mower Housing
2	172049	1	Cover, Right Hand
3	172414	1	Cover, Left Hand
4	108366	1	Reinforcing Bar
5	715067	12	Taptite Screw, 1/4"-20 x 3/8"
6	175843	1	Deflector
7	702004	2	Carriage Bolt, 3/8"-16 x 1-1/4"
8	153081	1	Spacer
9	8161199	1	Special Washer
10	720002	3	Lockwasher, 3/8"
11	717003	3	Full Hex Nut, 3/8"-16
12	123060	1	Nut Assembly
13	175839	1	Front Half Hinge

Ref. No.	Part No.	Qty. Req.	Description
14	702024	2	Carriage Bolt, 5/16"-18 x 1"
15	175840	1	Rear Half Hinge
16	703005	2	Carriage Bolt, 5/16"-18 x 3/4"
17	717001	4	Full Hex Nut, 5/16"-18
18	176155	1	Spring
19	175838	2	Pin
20	722009	2	Cotter Pin, 1/8" x 3/4"
21	174167	1	Stone Guard Assembly
22	702002	1	Carriage Bolt, 3/8"-16 x 1"
23	106719	1	Film, Simplicity
24	174845	1	Film, Belt Installation
25	176719	1	Decal, Danger
26	176720	1	Decal, Caution
27	720001	4	Lockwasher, 5/16"



# ROLLER ASSEMBLY



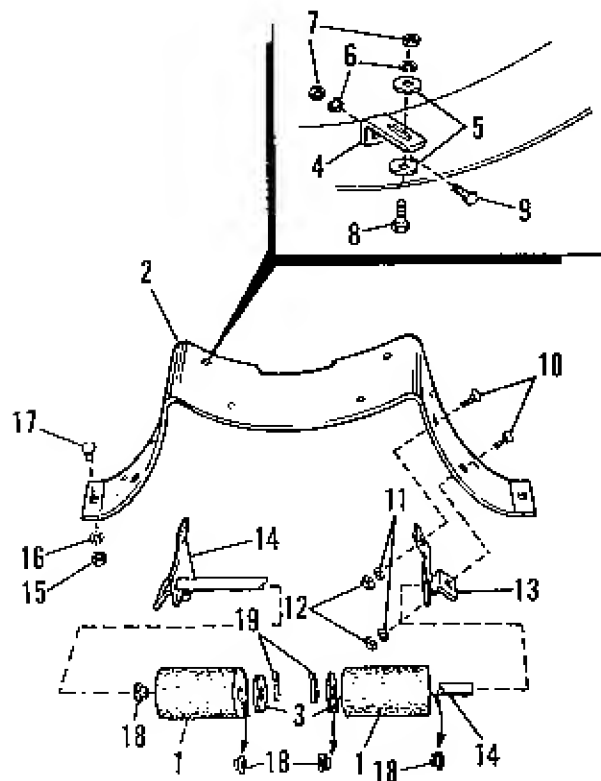
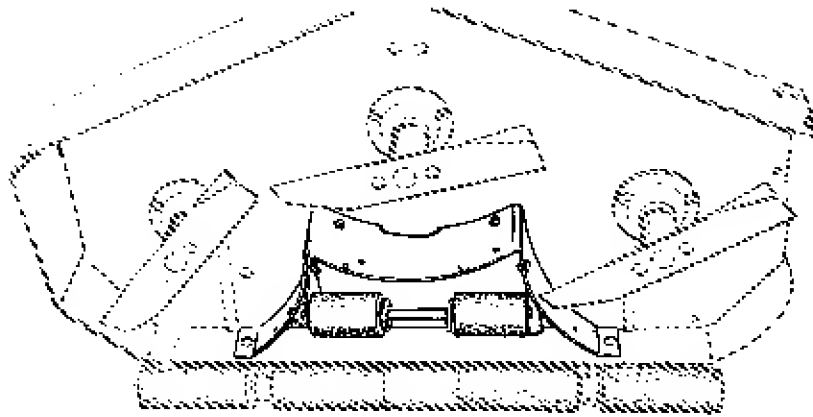
ORDER BY PART NUMBER

## 42" ROTARY MOWER

Ref. No.	Part No.	Qty. Req.	Description
1	177814	2	Screw Assembly, Adjusting
2	719001	4	Plain Washer, 3/8"
3	108241	2	Socket Assembly, Crank
4	717510	2	Full Lock Hex Nut, 3/8"-16
5	108512	2	Pivot
6	722001	2	Cotter Pin, 3/32" x 3/4"
7	719002	2	Plain Washer, 5/16"
8	171815	1	Eye Bolt
9	720002	1	Lockwasher, 3/8" Std.
10	717003	1	Full Hex Nut, 3/8"-16 NC
11	720002	4	Lockwasher, 3/8"
12	717013	2	Full Hex Nut, 3/8"-16 NC
13	108419	10	Bushings
14	719002	2	Plain Washer, 3/8" Std.
15	172015	1	Arm Assembly, Rocker
16	172045	1	Bracket, Roller, Right Hand

Ref. No.	Part No.	Qty. Req.	Description
17	172044	1	Bracket, Roller, Left Hand
18	172412	1	Bar Assembly, Roller
19	705005	2	Hex Capscrew, 3/8"-16 x 1"
20	717003	4	Full Hex Nut, 3/8"-16 NC
21	719001	2	Plain Washer, 3/8"
22	717510	2	Full Lock Hex Nut, 3/8"-16
23	108360	2	Spring, Adj. Screw
24	722011	4	Cotter Pin, 3/16" x 1"
25	116001	4	Washer
26	108432	3	Roller w/Bushing
27	8261055	2	Washer
28	171958	1	Shaft and Support Arm
29	108431	2	Roller w/Bushing
30	702003	4	Carriage Bolt, 3/8"-16 x 3/4"
31	176985	2	Grip

# MOWER UNDERSIDE



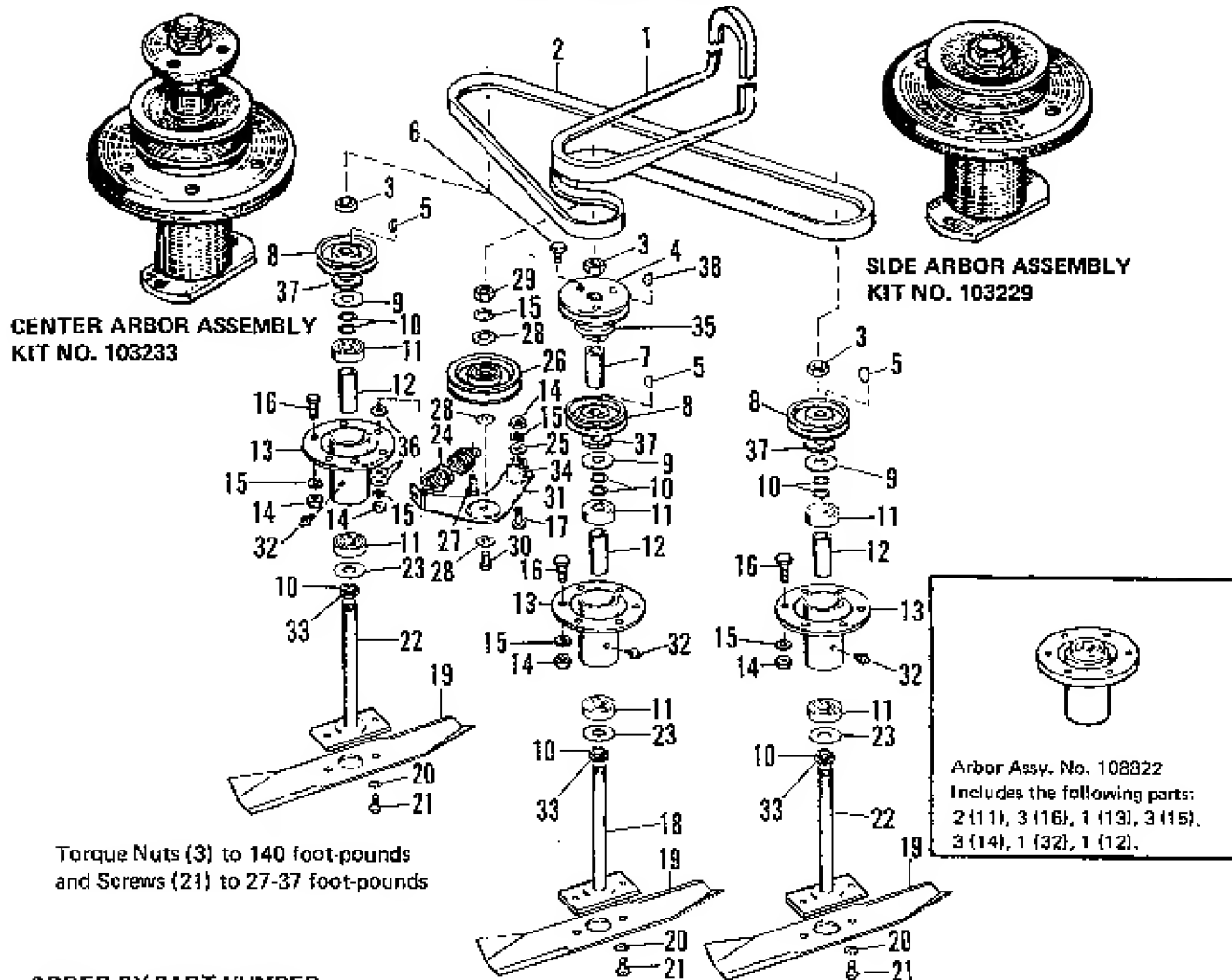
ORDER BY PART NUMBER

## 42" ROTARY MOWER

Ref. No.	Part No.	Qty. Req.	Description
1	108431	2	Roller W/Bushing
2	108361	1	Baffle
3	116001	2	Washer
4	108186	2	Clip Baffle
5	719006	2	Plain Washer, 1/4"
6	720003	4	Lockwasher, 1/4"
7	717005	4	Full Hex Nut, 1/4"-20 N.C.
8	715018	2	Hex Capscrew, 1/4"-20 x 5/8"
9	714012	2	Screw, Recessed Hex Self Tapping, 1/4"-20 N.C. x 7/8"

Ref. No.	Part No.	Qty. Req.	Description
10	702015	4	Carriage Bolt, 5/16"-18 x 3/4"
11	720001	4	Lockwasher, 5/16"
12	717001	4	Full Hex Nut, 5/16"-18
13	108224	1	Lower Roller Bracket, L.H.
14	108426	1	Bracket & Shaft Assembly
15	717003	2	Full Hex Nut, 3/8"-16 N.C.
16	720002	2	Lockwasher, 3/8"
17	703004	2	Carriage Bolt, 3/8"-16 x 3/4"
18	108419	4	Bushings
19	722011	2	Cotter Pin, 3/16" x 1"

# **42" ROTARY MOWER ARBOR ASSEMBLIES**



Ref. No.	Part No.	Qty. Req.	Description
1	176439	1	Belt, PTO
2	108209	1	Belt, "V" (Mower Spindle Drive)
3	717517	3	Hex Nut, Jam Lock, 3/4"-16
4	174189	1	Pulley
5	725006	3	Woodruff Key, (No. 61)
6	715174	3	Screw, Washer-head, Tapite 3/8"-16 x 1-3/4"
7	108436	1	Spacer
8	177005	3	Pulley
9	108134	3	Backing Ring
10	108181	9	Washer
11	108202	6	Bearing
12	108201	3	Spacer
13	108679	3	Arbor Tube Assembly
14	717003	18	Full Hex Nut, 3/8"-16
15	720002	19	Lockwasher, 3/8"
16	705004	17	Hex Capscrew, 3/8"-16 x 3/4"
17	705010	1	Hex Capscrew, 3/8"-16 x 1-3/4"
18	177499	1	Arbor Drive Assembly

Ref. No.	Part No.	Qty. Req.	Description
19	108298	3	Knife Blade
20	720002	6	Lockwasher, 3/8"
21	715024	6	Hex Capscrew, 3/8"-16 x 5/8"
22	108250	2	Arbor Assembly
23	108257	3	Washer
24	154369	1	Spring
25	719002	1	Plain Washer, 5/16"
26	108386	1	Idler Pulley
27	156131	1	Stud
28	719002	3	Plain Washer, 5/16"
29	717003	1	Full Lock Hex Nut, 3/8"-16
30	108418	1	Screw
31	108416	1	Idler Lever Assembly
32	727014	3	Grease Fitting
33	108472	3	Washer
34	8171073	1	Race Inner Bearing
35	176340	1	Hub, Pulley
36	719002	3	Washer, 5/16"
37	108139	3	Flinger
38	157332	1	Key

